

Message Text

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ACTION INT-05

INFO OCT-01 EUR-12 ISO-00 OES-05 CIAE-00 INR-07 NSAE-00

RSC-01 COME-00 AEC-07 NSF-02 /040 W

----- 114932

R 260935Z NOV 74

FM AMEMBASSY STOCKHOLM

TO SECSTATE WASHDC 3392

UNCLAS STOCKHOLM 5267

PASS DEPT OF INTERIOR, ATTN: B. BURNS AND L. MASON

E.O. 11652: N/A

TAGS: TECH, SW

SUBJECT: US-SWEDISH COOPERATION IN RAPID EXCAVATION AND ROCK
TUNNELING

1. THE DEPARTMENT OF INTERIOR STUDY TEAM, COMPOSED OF L.N. MASON, T.A.HENRIE, B. LEVINE, D.L. MISTEREK, AND G.B. WALLACE, COMPLETED A TEN DAY VISIT TO SWEDEN ON NOVEMBER 21. THE TEAM'S VISIT REPRESENTS THE FIRST OFFICIAL STEP TOWARD THE IMPLEMENTATION OF THE MEMORANDUM OF UNDERSTANDING BETWEEN THE SWEDISH INTERNATIONAL BUILDING COMMITTEE AND THE DEPARTMENT OF THE INTERIOR SIGNED ON NOVEMBER 8 BY GOVERNOR CEDERWALL (FOR SWEDEN) AND BARBARA BURNS (FOR THE U.S. DEPARTMENT OF THE INTERIOR).

2. HE INTERIOR STUDY TEAM MET THE LEADING SWEDISH ENGINEERS ENGAGED IN RAPID EXCAVATION AND TUNNELING, RECEIVED DETAILED BRIEFINGS ON ACTIVITIES, AND MADE SITE VISITS IN STOCKHOLM (SUBWAY CONSTRUCTION), NORRKOPING (UNDERGROUND OIL STORAGE IN ROCK CHAMBERS), KIRUNA AND SHELLEFTEA (MINING), AND SUNDSVALL (ROCK TUNNELING FOR A HYDROELECTRIC PLANT).

3. TWELVE ORGANIZATIONS INVOLVED IN POWER PRODUCTION, MINING, OIL STORAGE, TRANSPORTATION, DESIGN AND MANUFACTUREMF MINING AND TUNNELING EQUIPMENT, AND CONSULTING ENGINEERING SERVICES PARTICIPATED IN THE PROGRAM (ATLAS COPCO AB, BERGKONSULT AB, UNCLASSIFIED

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BOLIDEN AB, HAGKONSULT AB, LKAB, NITRO NOBEL AB, SKANINAVISKA

ELVERK AB, SKANSKA CEMENTGJUTERIET, STOCKHOLM CATUKONTORET, STATONS VATTENFALLVERK, AB STABILATOR, AND AB VATTENBYGGNADS-BYRAN). ENGINEERS FROM THE ROYAL ACADEMY OF ENGINEERING SCIENCES, THE SWEDISH FOUNDATION FOR CVK MECHANICS, THE ROYAL INSTITUTE OF TECHNOLOGY, AND THE UNIVERSITY OF UMEA, ALSO CONTRIBUTED TO THE OUTSTANDING PROGRAM FOR THE INTERIOR STUDY TEAM.

4. ON NOVEMBER 21, A SUMMARY MEETING WAS HELD AT THE ROYAL ACADEMY OF ENGINEERING SCIENCES. D.L. MISTEREK, BUREAU OF RECLAMATION, AND G.B. WALLACE, BUREAU OF MINES, PRESENTED BRIEFINGS ON U.S. ACTIVITIES IN ROCK MECHANICS AND MINING. THE INTERIOR STUDY TEAM EXPRESSED APPRECIATION FOR THE EXCELLENCE OF THE SWEDISH PROGRAM, COMMENTED FAVORABLY ON TECHNICAL QUALIFICATIONS OF SWEDISH ENGINEERS AND THEIR OPERATIONS, AND NOTED SEVERAL EXAMPLES OF RESEARCH ACTIVITIES AND METHODOLOGIES OF INTEREST TO THE U.S. SIDE. SOME OF THESE ARE (A) SUBSURFACE PLANNING, MANAGEMENT AND PROGRAMMING METHODS, (B) ROCK MECHANICS RESEARCH, (C) GROUND WATER CONTROL IN ROCK CHAMBERS USED FOR OIL STORAGE, AND (D) SHOTCRETING METHODS. THE INTERIOR STUDY TEAM'S FINAL REPORT, EXPECTED IN SIX TO EIGHT WEEKS, WILL PROVIDE A SUMMARY OF THE IMPRESSIONS AND IDENTIFY SPECIFIC U.S. INTERESTS.

5. THE RETURN VISIT OF THE SWEDISH STUDY TEAM WAS DISCUSSED AND THE FOLLOWING TENTATIVE CONCLUSIONS WERE REACHED: (A) A SWEDISH TEAM OF 8 TO 10 PERSONS MAY VISIT THE U.S. IN MAY 1975, (B) DURATION OF THE VISIT IS EXPECTED TO BE ABOUT 10 DAYS. (C) THE SWEDISH TEAM EXPECTS TO SPEND ONE OR TWO DAYS IN WASHINGTON, DIVIDE INTO TWO GROUPS (ONE FOR WESTERN U.S. AND ONE FOR EASTERN U.S.), AND REUNITE IN WASHINGTON FOR A FINAL ONE OR TWO DAYS. (D) FINAL DAYS IN WASHINGTON WOULD INCLUDE BRIEFINGS FROM ERDA, NSF, USGS, AND OTHER ORGANIZATIONS. (E) DISCUSSIONS BETWEEN THE INTERIOR STUDY TEAM AND SWEDISH PARTICIPANTS DEVELOPED THE FOLLOWING LIST (TENTATIVE) OF SUBJECTS OF INTEREST TO SWEDEN: MICROSEISMIC NETWORKS IN MINES, FULL FACE BORING TECHNIQUES, TRANSITION FROM COMPRESSED AIR TO ELECTRIC DRILLING AND FROM DIESEL POWERED TO ELECTRIC POWERED EQUIPMENT, UTILIZATION OF IMPROVED EXPLOSIVES, RESEARCH ON GROUND VIBRATIONS FOLLOWING SUBSURFACE DETONATIONS, FIBERGLASS

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BOLTS, GROUTING WITH PLASTICS, INSTRUMENTED MONITORSHIP OF MINE ENVIRONMENT, RESEARCH IN MINING AND RAPID EXCAVATION, USE OF COMPUTERS IN MINING AND TUNNELING OPERATIONS, RESEARCH IN ROCK MECHANICS AND ROCK STABILITY PROBLEMS, AND MANAGEMENT TECHNIQUES.

6. THE SWEDISH SIDE AGREED TO (A) PREPARE A LIST OF U.S. ORGANIZATIONS WHICH THEY WISH TO VISIT, (B) LIST RESEARCH

AREAS AND SUBJECTS OF PARTICULAR INTEREST, (C) COMPILE THE NAMES
AND ORGANIZATIONAL AFFILIATIONS OF SWEDISH TEAM MEMBERS, AND
(D) SEND THIS INFORMATION TO INTERIOR WELL IN ADVANCE OF THE
SWEDISH TEAM VISIT TO THE U.S.
STRAUS-HUPE

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: SCIENTIFIC COOPERATION, TECHNOLOGICAL EXCHANGES
Control Number: n/a
Copy: SINGLE
Draft Date: 26 NOV 1974
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1974STOCKH05267
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D740342-1039
From: STOCKHOLM
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1974/newtext/t19741110/aaaaaicw.tel
Line Count: 120
Locator: TEXT ON-LINE, ON MICROFILM
Office: ACTION INT
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: MorefiRH
Review Comment: n/a
Review Content Flags:
Review Date: 13 NOV 2002
Review Event:
Review Exemptions: n/a
Review History: RELEASED <13 NOV 2002 by maustmc>; APPROVED <19-Nov-2002 by MorefiRH>
Review Markings:

Declassified/Released
US Department of State
EO Systematic Review
30 JUN 2005

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: US-SWEDISH COOPERATION IN RAPID EXCAVATION AND ROCK TUNNELING
TAGS: TECH, SW
To: STATE
Type: TE
Markings: Declassified/Released US Department of State EO Systematic Review 30 JUN 2005